

- 1 -

SEQUENCE LISTING

5 <110> NeuTec Pharma PLC
 BURNIE, James P
 MATTHEWS, Ruth C

<120> Treatment of Infection due to Clostridium difficile

10 <130> MP100397-WO

<150> GB0306782.4
 <151> 2003-03-25

15 <160> 7

<170> PatentIn version 3.2

20 <210> 1
 <211> 975
 <212> DNA
 <213> Clostridium difficile

25 <220>
 <221> CDS
 <222> (40)..(975)

30 <400> 1
 attaccataa taattttaata attacaggag ggtattgat atg aaa ata cta gta 54
 Met Lys Ile Leu Val
 1 5

35 ttt gga gca cgc gat tat gaa gaa cca gta ata aaa aaa tgg tct gaa 102
 Phe Gly Ala Arg Asp Tyr Glu Glu Pro Val Ile Lys Lys Trp Ser Glu
 10 15 20

gaa cat aag gat gtt caa gtg gat att tat cct gaa aac atg act gaa 150
 Glu His Lys Asp Val Gln Val Asp Ile Tyr Pro Glu Asn Met Thr Glu

- 2 -

	25	30	35	
5	gaa aat gta gtt aaa gct aaa ggg tat gat ggt ata tct ata caa caa Glu Asn Val Val Lys Ala Lys Gly Tyr Asp Gly Ile Ser Ile Gln Gln			198
	40	45	50	
10	act aac tat ata gat aat cct tat att tat gaa act tta aaa gat gct Thr Asn Tyr Ile Asp Asn Pro Tyr Ile Tyr Glu Thr Leu Lys Asp Ala			246
	55	60	65	
	ggg gtt aaa gtt ata gct tca aga act gca ggg gtt gac atg ata cat Gly Val Lys Val Ile Ala Ser Arg Thr Ala Gly Val Asp Met Ile His			294
	70	75	80	85
15	ttt gat tta gtt aat gaa aat gga ctt atc gtt aca aac gtt cct gct Phe Asp Leu Val Asn Glu Asn Gly Leu Ile Val Thr Asn Val Pro Ala			342
	90	95	100	
20	tat tca cct aat gca ata gct gaa tta gct gtt act caa gct atg aac Tyr Ser Pro Asn Ala Ile Ala Glu Leu Ala Val Thr Gln Ala Met Asn			390
	105	110	115	
25	ctt tta aga aag act cct cta gta aag aaa aaa gtc tgt gaa ggt gat Leu Leu Arg Lys Thr Pro Leu Val Lys Lys Lys Val Cys Glu Gly Asp			438
	120	125	130	
30	tac cgt tgg ata gct gaa ctt ctt gga aca gaa gtt aga tct att aca Tyr Arg Trp Ile Ala Glu Leu Leu Gly Thr Glu Val Arg Ser Ile Thr			486
	135	140	145	
	gtt ggt gtt ata ggt aca gga aaa ata ggt gct act tct gca aaa tta Val Gly Val Ile Gly Thr Gly Lys Ile Gly Ala Thr Ser Ala Lys Leu			534
	150	155	160	165
35	ttc aaa ggc cta gga gct aat gta att gca tat gac caa tat cca aat Phe Lys Gly Leu Gly Ala Asn Val Ile Ala Tyr Asp Gln Tyr Pro Asn			582
	170	175	180	
	agt gat tta aac gat ata tta act tac aaa gat tct tta gaa gac ctt			630

- 3 -

Ser Asp Leu Asn Asp Ile Leu Thr Tyr Lys Asp Ser Leu Glu Asp Leu
 185 190 195

cta aaa gaa gct gac gtt ata aca tta cat act cct tta ctt gaa gga 678
 5 Leu Lys Glu Ala Asp Val Ile Thr Leu His Thr Pro Leu Leu Glu Gly
 200 205 210

aca aaa cat atg ata aat aaa gat act cta gct ata atg aag gat gga 726
 10 Thr Lys His Met Ile Asn Lys Asp Thr Leu Ala Ile Met Lys Asp Gly
 215 220 225

gct tac ata gta aat act gcc cgt ggt ggt tta att gat aca ggg gat 774
 15 Ala Tyr Ile Val Asn Thr Ala Arg Gly Gly Leu Ile Asp Thr Gly Asp
 230 235 240 245

tta ata gaa gca cta gac tca gga aaa att aga gct gct gcc ctt gat 822
 Leu Ile Glu Ala Leu Asp Ser Gly Lys Ile Arg Ala Ala Ala Leu Asp
 250 255 260

aca ttt gaa act gaa gga ttg ttc tta aac aaa aaa atg aat cct gga 870
 20 Thr Phe Glu Thr Glu Gly Leu Phe Leu Asn Lys Lys Met Asn Pro Gly
 265 270 275

gaa tta act gac cca gaa ata aat aaa ctt ctt tct atg gaa caa gtt 918
 25 Glu Leu Thr Asp Pro Glu Ile Asn Lys Leu Leu Ser Met Glu Gln Val
 280 285 290

ata ttc act cat cat ctt ggt ttc ttc act agt aca gcg att gaa aat 966
 30 Ile Phe Thr His His Leu Gly Phe Phe Thr Ser Thr Ala Ile Glu Asn
 295 300 305

ata gtt taa 975
 Ile Val
 310

35

<210> 2
 <211> 311
 <212> PRT

- 4 -

<213> Clostridium difficile

<400> 2

5 Met Lys Ile Leu Val Phe Gly Ala Arg Asp Tyr Glu Glu Pro Val Ile
 1 5 10 15
 Lys Lys Trp Ser Glu Glu His Lys Asp Val Gln Val Asp Ile Tyr Pro
 20 25 30
 10 Glu Asn Met Thr Glu Glu Asn Val Val Lys Ala Lys Gly Tyr Asp Gly
 35 40 45
 Ile Ser Ile Gln Gln Thr Asn Tyr Ile Asp Asn Pro Tyr Ile Tyr Glu
 15 50 55 60
 Thr Leu Lys Asp Ala Gly Val Lys Val Ile Ala Ser Arg Thr Ala Gly
 65 70 75 80
 20 Val Asp Met Ile His Phe Asp Leu Val Asn Glu Asn Gly Leu Ile Val
 85 90 95
 Thr Asn Val Pro Ala Tyr Ser Pro Asn Ala Ile Ala Glu Leu Ala Val
 100 105 110
 25 Thr Gln Ala Met Asn Leu Leu Arg Lys Thr Pro Leu Val Lys Lys Lys
 115 120 125
 Val Cys Glu Gly Asp Tyr Arg Trp Ile Ala Glu Leu Leu Gly Thr Glu
 30 130 135 140
 Val Arg Ser Ile Thr Val Gly Val Ile Gly Thr Gly Lys Ile Gly Ala
 145 150 155 160
 35 Thr Ser Ala Lys Leu Phe Lys Gly Leu Gly Ala Asn Val Ile Ala Tyr
 165 170 175
 Asp Gln Tyr Pro Asn Ser Asp Leu Asn Asp Ile Leu Thr Tyr Lys Asp
 180 185 190

- 5 -

Ser Leu Glu Asp Leu Leu Lys Glu Ala Asp Val Ile Thr Leu His Thr
 195 200 205

5 Pro Leu Leu Glu Gly Thr Lys His Met Ile Asn Lys Asp Thr Leu Ala
 210 215 220

Ile Met Lys Asp Gly Ala Tyr Ile Val Asn Thr Ala Arg Gly Gly Leu
 225 230 235 240

10 Ile Asp Thr Gly Asp Leu Ile Glu Ala Leu Asp Ser Gly Lys Ile Arg
 245 250 255

15 Ala Ala Ala Leu Asp Thr Phe Glu Thr Glu Gly Leu Phe Leu Asn Lys
 260 265 270

Lys Met Asn Pro Gly Glu Leu Thr Asp Pro Glu Ile Asn Lys Leu Leu
 275 280 285

20 Ser Met Glu Gln Val Ile Phe Thr His His Leu Gly Phe Phe Thr Ser
 290 295 300

Thr Ala Ile Glu Asn Ile Val
 305 310

25

<210> 3

<211> 20

<212> DNA

30 <213> Artificial Sequence

<220>

<223> PCR primer.

35 <400> 3

atgaaaatac tagtatttgg

20

<210> 4

- 6 -

<211> 21
<212> DNA
<213> Artificial Sequence

5 <220>
<223> PCR primer

<400> 4
ttaaactata ttttcaatcg c

10 21

<210> 5
<211> 17
<212> DNA
15 <213> Artificial sequence

<220>
<223> PCR Primer

20 <400> 5
gttttcccag tcacgac

17

<210> 6
25 <211> 17
<212> DNA
<213> Artificial sequence

<220>
30 <223> PCR Primer

<400> 6
caggaaacag ctatgac

17

35
<210> 7
<211> 20
<212> DNA
<213> Artificial sequence

- 7 -

<220>

<223> PCR Primer

<400> 7

5 atgccatagc atttttatcc

20